

Program Increment 5 Objectives

NO ISSUE

- Nothing is impeding progress on this objective. It is expected to complete in the PI.

WARNING

- Team is being slowed by a problem which, if not resolved, could prevent this objective from completing during the PI.

ISSUE


- Issue has been encountered which prevents this objective from completing during the PI.

EED COMPLETE

- All EED work is complete on this objective, but additional work needs to be done by an external group for the entire objective to work. (DAAC Installation, Provider Testing, etc.)

COMPLETE

- Objective is complete and deployed in OPS.

Rank	Feature	Objective	PI Status	Notes	Team
Holdover	NGAP Container Support	The production version of NGAP support and is primarily container-based. Acceptance Criteria: <ul style="list-style-type: none"> Docker supported and drives production NGAP deployment Production container-based NGAP has valid certificates Docker containers can be deployed to NGAP, including all security constraints, assuming correct setup (not necessarily automatic) 	COMPLETE		NGAP
New	Connect the new VPC within NGAP to the existing NGAP VPCs	The CSPO is providing NGAP an additional VPC to alleviate limited resources (IPs, ELBs, etc.). This new VPC is required for any additional application hosting on NGAP (including CMR in Ops). Acceptance Criteria: <ul style="list-style-type: none"> New VPC released to NGAP from CSPO New VPC verified as functional Peering between NGAP existing VPCs and new VPC in place. 	COMPLETE	Testing complete per  NGAP-1569 - JIRA project doesn't exist or you don't have permission to view it.	NGAP
1	CDM (BigFix)	Prototype BigFix and deploy to SIT	ISSUE	First server for BigFix is still TBD and we may get more at a 4/21 meeting. BigFix may be at risk. (4/17/2017) Note: Moved RES out of this objective and into it's own line below since it is now out of scope for this PI.	EI
4	CDM (RES)	Prototype RES and deploy to SIT	ISSUE	There are issues with RES and they are not expecting REST clients for macOS or Linux until Aug 2017. RES won't be done during this PI (4/17/2017). Per ESDIS guidance on 4/20 - splitting RES into it's own objective and marking as removed from scope since NASA will not be including RES in Phase 1 now.	
1	CDM (Nessus , ForeScout)	Define Monthly and Quarterly Nessus scans and configure all EED2 network devices for ForeScout	NO ISSUE		EI
1	CDM (NGAP under CSPO)	Bring NGAP and all hosted apps into compliance, especially with regards to BigFix, to satisfy CSPO guidelines and under the NASA corporate organizational requirements.	WARNING	Testing largely complete. All PaaS applications using the new AMI. Will complete validation this week of all existing AMIs and relay on to CSPO and AMES.	NGAP
2	CMR in the Cloud - Ops	Cut over operations from on-premises prod to CMR Prod NGAP environment.	COMPLETE	Cutover on 4/19.	CMR Core
2	Support CMR to the Cloud Ops Migration	Provide development, deployment, and operational support to the CMR team as they move to production NGAP hosting. Acceptance Criteria: <ul style="list-style-type: none"> CMR hosted in production NGAP capacity Ongoing patching is compliant with NGAP ATO and meets CMR needs. 	NO ISSUE	Cutover on 4/19. Waiting for confirmation of Security Plan updates.	NGAP
2	CMR in the Cloud - OPS	Support CMR OPS' migration to the Cloud.	COMPLETE		EI

3	Cumulus in the Cloud (SIT)	Support Cumulus SIT onboarding to the Cloud.	NO ISSUE		EI
3	Cumulus in the Cloud (SIT)	Support Cumulus Build, Deployment and Compliance checks CCP-41 Acceptance Criteria: <ul style="list-style-type: none"> Cumulus successfully Builds in Bamboo Compliance checks are run through Bamboo Cumulus can be Deployed from Bamboo 	NO ISSUE		CI/CD
3	Cumulus SIT: on-Board onto NGAP	Run Cumulus in NGAP with at least 1 data source GITC-146	NO ISSUE		GITC (Primary), NGAP, EI
3	Cumulus SIT: on-Board onto NGAP	Define long-term GIBS / Cumulus aligned architecture GITC-258	NO ISSUE		GITC
3	Cumulus SIT: on-Board onto NGAP	Migrate ingest and processing workflow to AWS Step Functions GITC-256	COMPLETE		GITC
4	GitC SIT: on-Board onto NGAP	Deploy OnEarth 1.3 version of GitC in NGAP GITC-226	NO ISSUE	Warning due to loss of team member and unexpectedly poor performance. Update: As discussed with customer/Peter, performance is not in scope for PI5 This is an iterative feature based on modifications to deployment versions, capabilities, and deployment approach (i.e. CF templates vs NGAP PaaS) Update: During 5/11 SAFe meeting, team agreed that current performance #s are acceptable for PI-5 objective due to departure of Phil O. Performance will need to be adjusted in PI-6.	GITC (Primary), NGAP, EI
3/4	Support GitC/Cumulus Migration to SIT and UAT	Provide development, deployment, and UAT-level support to the GitC team as they move both GitC and Cumulus to a UAT level of NGAP hosting. Acceptance Criteria: <ul style="list-style-type: none"> GitC in SIT and UAT Cumulus in SIT and UAT 	NO ISSUE	Tracking as a separate capability to distinguish platform capability from the application itself moving to NGAP.	NGAP
5	NGAP Onboarding Workflow	The NGAP onboarding application provides a useful onboarding process and leaves the application owner with information sufficient to request and/or access the NGAP sandbox. Acceptance Criteria: <ul style="list-style-type: none"> NOWA running in NGAP in a non-public production capacity, including valid certificates Docker containers available for use match production NGAP containers Provides current and valid access or request-for-access information for application owners 	NO ISSUE		NGAP
7	SMAP-S	Deliver any required service updates to support SMAP Sentinel data. (7)	NO ISSUE		L3/L4
7	SMAP-S	Develop updates for SMAP backlog NCRs as defined by an NSIDC approved NCR list (7)	NO ISSUE		L1/L2
8	VIIRS	Develop the associations between the VNP (VIIRS) data that contains latitude and longitude and the L2 VNP10, VNP14 and VNP30 data granules to be processed, and provide the file reference to HEG for processing. (8) (EPR 285)	ISSUE	The VIIRS data format changed and made this objective obsolete. The work was completed.	L1/L2
11	ICESat-2	For ICESat-2 Subsetter – Develop spatial & temporal subsetter for ATL03 (8)	NO ISSUE		L1/L2
12	ICESat-2	For ICESat-2 Subsetter – Develop temporal subsetter for all low-level products (8)	NO ISSUE		L1/L2
13	Initial onboarding of Giovanni	Acceptance Criteria: <ul style="list-style-type: none"> All current services required but not currently available have been requested. Evaluation of AMI needs as well as resulting requests completed At least the application owner and lead developer have access to the sandbox (or request for tokens, as needed) 	WARNING	Based on current sandbox discussions, we are in a holding pattern for moving any applications into a sandbox environment. It is unlikely that we will have a sandbox environment into which we can deploy applications this PI. We will be able to request services and evaluate the AMI for their needs, as well as likely provide them an AMI for their own testing, in this PI.	NGAP

13	Support initial Build, Deployment and Compliance checks for Giovanni	Acceptance Criteria: <ul style="list-style-type: none"> Build Plan created in Bamboo Compliance checks can be performed on Giovanni Deployment Plan is created for Giovanni Giovanni Developers have access to the Bamboo Sandbox for development and testing 	"WARNING"	Depends heavily on decisions for onboarding process for new applications	CI/CD
14	Initial onboarding of CAaaS	Acceptance Criteria: <ul style="list-style-type: none"> All current services required but not currently available have been requested. Evaluation of AMI needs as well as resulting requests completed At least the application owner and lead developer have access to the sandbox (or request for tokens, as needed) 	WARNING	Based on current sandbox discussions, we are in a holding pattern for moving any applications into a sandbox environment. It is unlikely that we will have a sandbox environment into which we can deploy applications this PI. We will be able to request services and evaluate the AMI for their needs, as well as likely provide them an AMI for their own testing, in this PI.	NGAP
14	Support initial Build, Deployment and Compliance checks for CAaaS	Acceptance Criteria: <ul style="list-style-type: none"> Build Plan created in Bamboo Compliance checks can be performed on CAaaS Deployment Plan is created for CAaaS CAaaS Developers have access to the Bamboo Sandbox for development and testing 	"WARNING"	Depends heavily on decisions for onboarding process for new applications	CI/CD
15	Initial onboarding of Nexus	Acceptance Criteria: <ul style="list-style-type: none"> All current services required but not currently available have been requested. Evaluation of AMI needs as well as resulting requests completed At least the application owner and lead developer have access to the sandbox (or request for tokens, as needed) 	WARNING	Based on current sandbox discussions, we are in a holding pattern for moving any applications into a sandbox environment. It is unlikely that we will have a sandbox environment into which we can deploy applications this PI. We will be able to request services and evaluate the AMI for their needs, as well as likely provide them an AMI for their own testing, in this PI.	NGAP
15	Support initial Build, Deployment and Compliance checks for Nexus	Acceptance Criteria: <ul style="list-style-type: none"> Build Plan created in Bamboo Compliance checks can be performed on Nexus Deployment Plan is created for Nexus Nexus Developers have access to the Bamboo Sandbox for development and testing 	"WARNING"	Depends heavily on decisions for onboarding process for new applications	CI/CD
New	Initial onboarding of GRIN	Acceptance Criteria: <ul style="list-style-type: none"> All current services required but not currently available have been requested. Evaluation of AMI needs as well as resulting requests completed At least the application owner and lead developer have access to the sandbox (or request for tokens, as needed) 	EED COMPLETE	GRIN is not ready for onboarding, so no further EED work this PI.	NGAP
16	URS Contingency Site Failover Test	Prep and perform a successful URS contingency site failover.	WARNING	The scope of this task changed alot in the last month, to include setting up a UAT Contingency Site so that we could work out issues BEFORE we test on OPS. We are also setting up an F5 Virtual Edition to mimic UAT and PROD sites more closely. There were some unexpected delays in getting the FW rules worked out with NetOps and getting access to 5 new VM's we installed. We are also delayed in procuring of F5 Virtual Edition license so potentially we will be testing failover with the trial license, which may impact performance. Once UAT environment is stood up, we can start testing and working out potential issues – and not have to wait until PM's and have an extremely short window to test. We will push to catch up and perform UAT failover successfully... and then do the OPS failover test after that. (5/17)	Ei
17	Develop the transition plan for migrating GIBS to GitC	Support ops planning meetings / artifacts GITC-259	NO ISSUE	Our role is owned externally	GITC

18	NGAP Sandbox "Complete"	Combines the PI-4 NGAP Sandbox MVP and a re-definition of NGAP Sandbox "1.0". Acceptance Criteria: <ul style="list-style-type: none">Sandbox deployed in a non-public capacity with valid certificates (complete in PI-4)Application owners are able to SSH in to their sandbox instancesStretch: Exceedium console is available to application owners	WARNING	<ul style="list-style-type: none"> Sandbox is not available in old VPC due to IP/space limitations. CSPO suggests console access for sandbox in the shared GP-MCE account is a non-starter. SSH likely impossible without granting permissions that are too wide-ranging for app owners. <p>Based on current sandbox discussions, we are in a holding pattern for moving any applications into a sandbox environment. It is unlikely that we will have a sandbox environment into which we can deploy applications this PI.</p>	NGAP
19	End-To-End Services: Expose CMR API	Provide use cases for supporting EDSC Services design prototype.	NO ISSUE		CMR Core
19	End-To-End Services: Expose CMR API	Design CMR Search API for EDSC Services.	NO ISSUE		CMR Core
19	End-To-End Services: Expose CMR API	Implement CMR Search API to support EDSC prototype.	NO ISSUE		CMR Core
20	Reverb to EDSC Transition	Deploy new EDSC UI to support Reverb transition	NO ISSUE	New UI has been deployed to UAT.	EDSC
20	Reverb to EDSC Transition	Create marketing/communication materials to support Reverb transition.	NO ISSUE	Updated printouts have been designed and approved by ESDIS. The only thing left here is to update the banner on Reverb to link to the new webinar, which is scheduled for 5/31.	EDSC
20	Reverb to EDSC Transition	Present webinar of EDSC, highlighting new features, to support Reverb transition.	NO ISSUE	Webinar scheduled for May 31st at 2pm	EDSC
20.5	PUMP Shutdown	Shutdown PUMP	NO ISSUE		CMR Metadata
20.5	PUMP Shutdown	Provide support to the shutdown of PUMP	NO ISSUE		MMT
22	Automated App Scanning	Support documentation and provide brown bag session for Automated App Scanning.	NO ISSUE		EI
22	Automate Application Scanning on all Existing Applications	Provide capability on CI server to scan applications residing ON-PREM or NGAP (EPR-299)	WARNING	<p>Slower than expected Sprint 3 leads to concerns over getting all on-prem applications scanned by end of PI.</p> <p>Running into snags with some on-prem services requiring authentication to either URS or Launchpad needs to be figured out.</p>	CI/CD, EI
23	Upgrade Puppet to 4.x	Upgrade puppet to latest release on remaining nodes (EPR-303)	WARNING	Concerns over taking more time to complete tasks than planned, several build/deployment issues stalled smooth transitions, other objectives are higher priority for now. Also, the dependency modules were not updated for a while. So updating the versions to more current versions required more testing cycles.	CI/CD
24	ARC Curation Support	Update MMT to UMM 1.9	NO ISSUE		MMT
24	ARC Curation Support	Update the UMM-C translations to allow NSIDC to ingest ISO collections in UAT	NO ISSUE		CMR Metadata
24	ARC Curation Support	Implement missing KMS validations	NO ISSUE		CMR Metadata
24	ARC Curation Support	STRETCH - implement missing date validations	NO ISSUE		CMR Metadata
25	IONet Alternatives	Research options and setup a test mailbox on one of the alternatives to IONET	NO ISSUE		EI
26	Kayako Upgrade	Support upgrade of Kayako to the latest downloadable version.	NO ISSUE		EI
27	Open Source Release of Conduit	Complete paperwork required to open-source Conduit.	WARNING	Submitted paperwork weeks ago, haven't heard any feedback.	ED

28	Assist onboarding collections at NSIDC	Modify the Descriptor Maker to pull and parse collection metadata from CMR in UMM-C format. https://links.gsfc.nasa.gov:20072/#Default/4/issues/16476/detail/17872	COMPLETE	Delivered to NSIDC for testing.	Clearcase Migration
30	TopHat Replacement	Redesign and Implement new Earthdata TopHat.	NO ISSUE		ED
32	GITC: On-Earth Updates	Upgrade to On-Earth 2.0, deploying to NGAP via Bamboo GITC-260	NO ISSUE		GITC (Primary) EI
32	GITC: On-Earth Updates	Characterize On-Earth 2.0 performance, as deployed to NGAP, and update as required to maintain parity with on-premises GIBS GITC-261	ISSUE	OnEarth 2.0 will not be ready for this this PI, and our loss of a team member means we could not support this if it were.	GITC
33	CMR Harvesting	Implement and document collection harvesting use cases.	NO ISSUE		CMR Core
33	CMR Harvesting	Prototype granule harvesting use cases.	NO ISSUE		CMR Core
34	2 Factor Authentication	Ensure all Bamboo users have code 400 RSA tokens	NO ISSUE		ED
35	TaskTop Integration	Support Tasktop integration by installing/configuring Tasktop and JIH in SIT and OPS.	NO ISSUE		EI
35	TaskTop Integration	Enable synchronization between JIRA and public Github.	NO ISSUE		ED
36	ED Structured Content	Provide recommendations for possible enhancements to Earthdata Structure Content.	NO ISSUE		ED
37	Provider Specific Validation	Support provider specific validations for collections.	NO ISSUE		MMT
38	Bulk Updates	Allow bulk updating of specific keywords across multiple collections.	NO ISSUE		MMT
38	Bulk Update	Implement bulk update API for keywords	NO ISSUE		CMR Metadata
39	GITC: Operational tools	Implement core ops tools features: overviews of system and product status and basic re-ingest GITC-122	WARNING	The work is taking longer to complete than expected. We'll work to catch back up with completing this task.	GITC
41	AppEEARS to EDSC Architecture Study	Define scope of functionality which can be leveraged from AppEEARS to EDSC	NO ISSUE		CMR SE
43/59	Add site map to Earthdata that includes dataset landing pages out of CMR	Make CMR landing pages available in Google Search Results	NO ISSUE		ED
44	UI/UX Improvement Plan	Document UI/UX process in the wiki and receive approval by ESDIS.	NO ISSUE		UI/UX
45	Clearcase Migration	Reduce the size of the Clearcase repository by removing non-source files to prepare for move to the ECC. https://links.gsfc.nasa.gov:20072/#Default/4/issues/16550/detail/17974		Per concurrence with Andy and Tracy, removing this from PI5 scope. 4/20/17	Clearcase Migration
45	Clearcase Migration	Prototype running SDPS in a VM on the MacBook. https://links.gsfc.nasa.gov:20072/#Default/4/issues/16560/detail/17975		Per concurrence with Andy and Tracy, removing this from PI5 scope. 4/20/17	Clearcase Migration
48	Update SDPS to enable data services for subscriptions prior to delivery	Develop prototype to enable subscriptions for services (S4S)	NO ISSUE		SG
61	Enhance EGI to support the WCS protocol	Perform a trade study to define a server side UI/UX driven architecture that enables users to retrieve processed data	NO ISSUE		SG
62	Ensure users of programmatic access can access services using WCS parameters	Develop support for WCS 1.1 requests from ArcGIS clients for MOD10A1 as a proof of concept, in the EDF accessible from NSIDC and remote developers	WARNING	William Valencia unable to use ArcGIS client. Waiting for Windows VM.	SG
	Reduce AWS costs	(Stretch) Update Elasticsearch instance types to reduce cost and improve performance	NO ISSUE		CMR Core

	Reduce AWS costs	(Stretch) Deploy browse-scaler as a Lambda function	NO ISSUE		CMR Core
8	VIIRS	Support HEG services for L2 VIIRS: VNP10, VNP30, and VNP14 (EPR-285)	WARNING	HEG code change completed with lat/lon fields on separate files. However, on 05/10/17 we were asked to rewrite code to process lat/lon from the same file as the data file using new sample files that will be available soon.	L3/L4
9	VIIRS	Support HEG services for L3 VIIRS: VNP09CMG, VNP09GA, VNP09A1, and VNP09H1	NO ISSUE	HEG code change completed.	L3/L4
	HEG Datum conversion	Support Ellipsoid conversion in HEG for ellipsoids supported in HDFEOS	NO ISSUE		L3/L4
10	VIIRS	Support HEG services for VNP10A1 L3 product if sample data becomes available by May 15, 2017	ISSUE	The sample data is not available for this product. So it will not be supported in PI5.	L3/L4
	Dockerize HEG	Dockerize a Service Component - HEG + HegService + GetFile. (Without Services framework, e.g., Data Access, but still useable / Demonstrable)	NO ISSUE		HEG-C
	Run HEG Container in the Cloud	Run HEG Container in the Cloud (e.g. Raytheon AWS ECS - not NGAP, but NGAP-ish)	NO ISSUE		HEG-C
	Build HEG Container from ECC	(Stretch) Build HEG Container from ECC + Bamboo.	NO ISSUE		HEG-C